

Project Lead The Way Gateway: DM/AR 2015-2016 Scale-Up Program

Overview: Funding will assist Iowa educators in implementing the [PLTW Gateway](#) program by providing Core Training tuition for one or two educators to attend teacher summer Core Training for the two foundational units: Design and Modeling (DM) (1-week Core Training) and Automation and Robotics (AR) (1-week Core Training) and five VEX PLTW Automation and Robotics Kits.

Grade Levels: 6-8

Program Summary

Project Lead The Way (PLTW) is a nonprofit organization and the nation's leading provider of K-12 science, technology, engineering, and math (STEM) curricular programs—including PLTW Launch* (K-5), [PLTW Gateway](#)* (6-8), and three high school programs: PLTW Engineering*, PLTW Computer Science* and PLTW Biomedical Science. PLTW's world-class, activity-, project-, and problem-based curriculum and high-quality teacher professional development model, combined with an engaged network of educators and corporate partners, help students develop the skills needed to succeed in our global economy. PLTW's rigorous and relevant curriculum is collaboratively developed and consistently reviewed and improved by PLTW staff, teachers, university educators, industry experts, and school administrators. It leverages an innovative, project-based approach, fostering collaboration and building critical thinking skills.

**Part of 2015-16 Iowa Governor's STEM Scale-Up selected programs*

What does the project provide?

Funding will assist Iowa high schools in implementing the PLTW Gateway program by providing...

1. Educator training (one educator per session) for the two foundation units of PLTW Gateway: Design and Modeling (DM) and Automation and Robotics (AR). Applicants may send one educator to both Core Training sessions (DM and AR); or two educators, one to DM Core Training, and another to AR Core Training. Trainings will be held this July at [Iowa State University College of Engineering](#), Ames, IA (exact training dates to be released in March).
2. Five VEX PLTW Gateway Robotics Kits for the AR unit that will ship to selected schools, once the teacher(s) have completed Core Training. These kits, representing more than two-thirds of one-time equipment costs, will allow schools to adequately outfit one lab with the robotics equipment needed for up to 25 students (one kit for every five students) per class period.

What is required by the applicant in order to implement this program?

- Sites need to review the [Iowa Governor's STEM Advisory Council's 2015-16 Scale-Up Programs info](#) and pertinent PLTW information: [PLTW Gateway Program Requirements](#), the [sample PLTW Agreement](#), the [PLTW Partnership Team Guidebook](#) and the PLTW Guide to Successful Implementation PDF.
- Sites will then need to [apply for the Iowa Governor's STEM Scale-Up](#) and [register the program with Project Lead The Way](#). Registration does not commit the site to PLTW implementation; however, it does provide valuable information about a site's program and Scale-Up award interest to [Project Lead The Way](#) and the [Iowa Gov.'s STEM Adv. Council](#).
- Review the [PLTW Register Now](#) webpage. Choosing either 1) [My school or organization already has one or more PLTW programs](#) OR 2) [This is my school or organization's first PLTW program](#) and follow the instructions listed.
- [Register the school district and/or the participating schools](#). Select a [District Administrator \(DA\)](#) and [School Administrator \(SA\)](#) (for each school) to serve as the main points of contact with PLTW and be responsible for providing and maintaining accurate data and information. Upon registration, the DA will receive an email with a link to the [PLTW Agreement](#).
- Review site's PLTW agreement with authorities such as the school board, superintendent, and legal department to ensure all parties are aware of district and school responsibilities. After obtaining the authorized signatures, email agreement to [PLTW School Support Team](#).
- Execute LEA Agreement with PLTW as a part of the Scale-Up before attending Core Training and before purchasing materials.
- Select a teacher(s) to attend PLTW Gateway: DM/AR Core Trainings. Teachers should be excited to teach a project-based curriculum and meet the requirements of the PLTW agreement. After the signed agreement has been received and processed, the DA and/or SA should contact the [PLTW School Support Team](#) (877-335-7589) to add and/or update district/school contacts, including teachers.
- [Register teacher\(s\)](#) for the PLTW Gateway: DM/AR Teacher Trainings (each unit 1-week). Teachers must successfully complete and pass all required online PLTW Readiness Training modules prior to completing Core Training. Award covers teacher tuition, which includes parking and lunch meals; however, this does not include other costs associated with Core Training, such as lodging, teacher stipend, additional meals, etc. Training sites will provide training lodging/meals packages for participants.
- Review the [PLTW Order Instructions](#), the PLTW Gateway pricing in the [Gateway Inventory Workbook](#) and [PLTW Computer Specifications](#) to order the necessary equipment and supplies for the course.

Website to View Program and Standards Alignment: <http://alignment.pltw.org/site/index>

Program Video: <https://www.youtube.com/watch?v=qQq6Fu8VK3A&list=PLcCTPHuIP75L4OB5bdEiFmryWewqxbXRT&index=3>